



Replacement Sheet

PC43	EC 1	(29)	ASTVIHYEIPEEREK-----GFAVGNVVANL--GLDLGSLSA--	(63)
	EC 2	(136)	PTOEMKLEISEAVAP-----GTRFPLESAH---DPDLGSNSL--	(169)
	EC 3	(245)	NQSLYRARVPGGCTS-----GTRVVQVLAT---DLDEGPNGE--	(278)
	EC 4	(353)	TVTSVYSPVPEDAS-----GTVIALLSVT---DLDAGENGL--	(385)
	EC 5	(457)	SQSSYDVYIEENNLP-----GAPILNLSVM---DPDAPONAR--	(490)
	EC 6	(567)	LYPRPGGSSVEMLRGTSA-GHLVSRVVGW---DADAGHNAW--	(604)
PC42	EC 1	(42)	VPEEQPNTLI-----GSL-----AADYGFPDVG--	(65)
	EC 2	(147)	ASPVITLAIPENTNI-----GSLFPIPLAS---DRDAGPNGV--	(180)
	EC 3	(247)	ERPSYEAELSENSPI-----GHSVIOVKAN---DSDQGANAEE--	(280)
	EC 4	(354)	EIRGIGLVTHODGMANISEDVAEETAVALVQVSDRDEGENAA--	(395)
	EC 5	(473)	TQSVTEVAFPENKPN-----GEVIAEITAS---DADSGSNAE--	(506)
	EC 6	(579)	MLSGYNFSVMENMPA-----LSPVGMVTVI---DGDKGENAQ--	(612)
	EC 7	(682)	TAPSNTSHKLLTPQTRL---GETVSQVAAE---DFDSGVNAE--	(717)
FAT	EC18	(1)	EDTVYSFDIPENAQ-----GYQVGQIVAR---DADLGONAQ--	(34)
N-CAD	EC 1	(1)	DWVIPPINLPENSRG-----PFPQELVRIRS---DRDKNLSLRYT	(37)
	EC 2	(109)	LHQVWNGSVPEGSKP-----GTVMVTVTAI---DADDPNALNGM	(144)
	EC 3	(224)	TAMTFYGEVPEPNRVD-----IIVANLTVT---DKQPHTPAWN	(258)
	EC 4	(339)	APNPKIIRQEEGLHA-----GTMLTFTAG---DPDRYMQQN--	(372)
	EC 5	(447)	LPQEAETCETPDPSINITAL-----DYDIDPNAGP--	(478)

MOTIF \*\*\*\*\*V\*EN\*\*\*-----GT\*v\*\*v\*A\*---D\*D\*G\*N\*\*\*--

FIGURE 1A

PC43	EC 1	(64)	RRFPVVGASRR-----	FFEVRNRET-----	GEMFVNDR-----	(91)
	EC 2	(170)	QTYELSRNEY-----	FALRVQTRDSTKYAELVLER--		(201)
	EC 3	(279)	IIYSFGSHNRAGVRQL--	FALDLVT-----	GMLTIKGR-----	(309)
	EC 4	(386)	VTCEVPPGLP-----	FSLTSSLKNYFTLKTSAD-----		(413)
	EC 5	(491)	LSFFLLEOGAETGLVGRYFTINRDN-----	GIVSSLVP-----		(523)
	EC 6	(605)	LSYSLFGSPNQSL-----	FAIGLHT-----	GQISTARPV----	(633)
PC42	EC 1	(66)	HLYKLEVGAP-----	YLRVVGKT-----	GDIFTTETS---	(92)
	EC 2	(181)	ASYELOVAED-----	QEEKQPQLIVMGN-----		(203)
	EC 3	(281)	IEYTFHOAPEVVRRL---	LRLDRNT-----	GLITVQGP-----	(310)
	EC 4	(396)	VTCVVAGDVP-----	FQLROASETGDSKKKYFLQTTTP		(429)
	EC 5	(507)	LVYSLEPEPAAKGL-----	FTISPET-----	GEIQVKS-----	(535)
	EC 6	(613)	VQLSVEODNGD-----	FVIQNGT-----	GTILSSLS-----	(638)
	EC 7	(718)	LIYSIAGGNPYGL-----	FOIGSHS-----	GAITLEKE-----	(745)
FAT	EC18	(35)	LSYGVVSDWANDV-----	FSLNPQT-----	GMLTLTAR-----	(62)
N-CAD	EC 1	(38)	VTGPGADQPPTGI-----	FIINPIS-----	GQLSVTKP-----	(65)
	EC 2	(145)	LRYRILSOAPSTPSNM-	FTINNET-----	GDIITVAAG---	(177)
	EC 3	(259)	AVYRISGGDPTGR-----	FAIQDTPNSND-	GLVTVVKP-----	(290)
	EC 4	(373)	IRYTKLSDPAN-----	WLKIDPVN-----	GOITTIIV-----	(399)
	EC 5	(479)	FAFDLPLSPVTIKRN---	WTITRLN-----	GDFAQLNLK---	(509)
MOTIF			I*O*I*****O*I***T-----	G*I*T***-----		

FIGURE 1B

PC43	EC 1	(92)	LDREELGGLPSCTVTLELVENP-----LELFSVEVVIODINDNNPAF	(135)
	EC 2	(202)	LDREPSLQLVLTALDGGTPAL-----SASLPPIHIKVLANDNAPVF	(244)
	EC 3	(310)	LDFEDTKLHEIYIOAKDKGANPE-----GAHCKVLVEVDVNDNAPEI	(352)
	EC 4	(414)	LDRETVPEYNLSITARDAGTPSL-----SALTIVRVQVSDINDNPPOS	(456)
	EC 5	(524)	LDYEDRRREFELTAHISDGGTPVL-----ATNISVNI FVTD RNDNAPQV	(566)
	EC 6	(634)	QDTS PRQTLTVL-IKNGEPSLSTTATLTVSVTEDSPEARAEFPGSAPREQKKN	(688)
PC42	EC 1	(93)	IDREGLRECONLPGDPCILEFEVSITDLVONAS--PRLEGOIEVODINDNTPNF	(146)
	EC 2	(204)	LDREWDSDYDLTIKVQDGGSPPR-----ATSALLRVTVLDTNDNAPKF	(246)
	EC 3	(311)	VDREDLSTLRFSLAKDRGTNPK-----SARAOVVVTVKMDNDNAPTI	(353)
	EC 4	(430)	LDYEKVKDYTIEIVAVDSGNPPL-----SSTNSLKVQVVDVNDNAPVF	(472)
	EC 5	(536)	LDREQRESYELKVVAADRGSPL-----QGTATVLVNVLD CNDNDPKF	(578)
	EC 6	(639)	FDREQQSTYTFQLKAVDGGVPPR-----SAYVGTINVLDENDNAPYI	(681)
	EC 7	(746)	IERRHGLHRLVVKVSDRGKPPRYGTALVHLYVNETLANRTLLETLLGHSLDTPLD	(801)
			(802) IDIAGDPEYERSKQRGN	(818)
FAT	EC18	(63)	LDYEEVQHYILIVQAOODNGQPSL-----STTITVYCNVLDLNDNAPIF	(105)
N-CAD	EC 1	(66)	LDREQIARFHLRAHAVDINGNQV-----ENPIDIVINVIDMNDNRPEF	(108)
	EC 2	(178)	LDREKVQQYTLIIQATDMEGNPTYGL-----SNTATAVITVTDVNDNPPEF	(223)
	EC 3	(291)	IDFETNRMFVLTVAAENQVPLAKGIOHPP-----QSTATVSVTVIDVNE-NPYF	(338)
	EC 4	(400)	LDRESPNVKNNIYNATFLASDNGIPPM-----SGTGTLOIYLLDINDNAPQV	(446)
	EC 5	(510)	IKFLEAGIYEVPIIITDSGNPPKSNKS-----ILRVRCQCQDFNGDCTDVDR	(557)
MOTIF			LDRE****o*L*v*A*D*G*P**-----**t*TV*v*V*D*NDNAP*F	

FIGURE 1C